

## EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	59	"187646"	US-PGPUB; USPAT; JPO; DERWENT	OR	OFF	2010/03/20 11:22
S2	2	"2009187646"	US-PGPUB; USPAT; JPO; DERWENT	OR	OFF	2010/03/20 11:41
S3	2	"09187646"	US-PGPUB; USPAT; JPO; DERWENT	OR	OFF	2010/03/20 11:41
S4	4	"5895796"	US-PGPUB; USPAT; JPO; DERWENT	OR	OFF	2010/03/20 11:43
S5	1	"20070128424"	US-PGPUB; USPAT	OR	OFF	2010/03/20 11:44
S6	2	"6689465"	US-PGPUB; USPAT	OR	OFF	2010/03/20 12:13
S7	7	(por\$4 with absorbent) and (fibril with por\$4)	US-PGPUB; USPAT	OR	OFF	2010/11/08 11:35
S8	74	(por\$4 with absorbent) and (fibril with por\$4)	US-PGPUB; USPAT	OR	ON	2010/11/08 11:36
S9	30	S8 and (polyvinylidene or PVDF or polyacrylonitrile or PAN)	US-PGPUB; USPAT	OR	ON	2010/11/08 11:37
S12	25	S9 and (bead or microsphere)	US-PGPUB; USPAT	OR	ON	2010/11/08 11:38
S13	1	S12 and (ion with absorb\$4)	US-PGPUB; USPAT	OR	ON	2010/11/08 11:39
S14	62	(omori near2 akihiro) or (shimizu near2 tadashi)	US-PGPUB; USPAT	OR	ON	2010/11/08 11:39
S15	1	S14 and (ion with absorb\$4)	US-PGPUB; USPAT	OR	ON	2010/11/08 11:40
S16	3	S14 and (fibril with por\$4)	US-PGPUB; USPAT	OR	ON	2010/11/08 11:40
S17	8	("4110529"   "4904426"   "4940734"   "4985468"   "5021462"   "5047437"   "5314923").PN. OR ("6689465").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2010/11/08 11:41
S18	4	S17 and (fibril or fiber)	US-PGPUB; USPAT; USOCR	OR	ON	2010/11/08 11:43

## EAST Search History (Prior Art)

S19	11	"4486549"	US-PGPUB; USPAT; USOCR	OR	ON	2010/11/08 13:06
S21	1908	(porous with bead) and ((fiber or fibril) with (pore or porous))	US-PGPUB; USPAT; USOCR	OR	ON	2010/11/08 13:09
S23	432	S21 and (polyvinylidene or PVDF or polyacrylonitrile)	US-PGPUB; USPAT	OR	ON	2010/11/08 13:09
S24	162	S23 and (titanium or tin or zirconium)	US-PGPUB; USPAT	OR	OFF	2010/11/08 13:25
S25	1	S24 and ((titanium or tin or zirconium) same (absorbent or (absorb\$4 with material)))	US-PGPUB; USPAT	OR	OFF	2010/11/08 13:26
S26	22	S24 and ((titanium or tin or zirconium) same (absorb\$4))	US-PGPUB; USPAT	OR	OFF	2010/11/08 13:27
S27	6	S26 and (bead)	US-PGPUB; USPAT	OR	OFF	2010/11/08 13:28
S28	0	(mori near2 motoya)	US-PGPUB; USPAT	OR	OFF	2010/11/08 14:31
S29	15	(motoya) and (ion with absorb\$4)	US-PGPUB; USPAT	OR	OFF	2010/11/08 14:32
S30	11	S29 and (fiber or fibril)	US-PGPUB; USPAT	OR	ON	2010/11/08 14:34
S31	3	S29 and ((fiber or fibril) same porous)	US-PGPUB; USPAT	OR	ON	2010/11/08 14:34
S32	7	("4235972"   "4400305"   "4771080"   "4868055").PN. OR ("5895796").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2010/11/08 14:35
S33	12	("2211664"   "4144373"   "4187187"   "4362626").PN. OR ("4400305").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2010/11/08 14:45
S34	16	("2768264"   "4009141"   "4066394"   "4171283"   "4220553").PN. OR ("4362626").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2010/11/08 14:47
S35	2766	(polyvinylidene or PVDF or polyacrylonitrile or ethylene near2 vinylalcohol or EVOH) same por\$4 same (fiber or fibril)	US-PGPUB; USPAT	OR	ON	2010/11/08 14:55
S36	1701	(polyvinylidene or PVDF or polyacrylonitrile or ethylene near2 vinylalcohol or EVOH) same (por\$4 with (fiber or fibril))	US-PGPUB; USPAT	OR	ON	2010/11/08 14:55
S37	1121	(polyvinylidene or PVDF or polyacrylonitrile or ethylene near2 vinylalcohol or EVOH) same (porous with (fiber or fibril))	US-PGPUB; USPAT	OR	ON	2010/11/08 14:55
S38	24	S37 and ((titanium or tin or zirconium) same (absorb\$4))	US-PGPUB; USPAT	OR	OFF	2010/11/08 14:56
S39	616	(polyvinylidene or PVDF or polyacrylonitrile or ethylene near2 vinylalcohol or EVOH) with (porous with (fiber or fibril))	US-PGPUB; USPAT	OR	ON	2010/11/08 14:58

## EAST Search History (Prior Art)

S40	236	S39 and (porous near2 (fibril or fiber))	US-PGPUB; USPAT	OR	ON	2010/11/08 14:59
S41	3	S40 and ((ion or cation or anion) with absorb\$4)	US-PGPUB; USPAT	OR	ON	2010/11/08 15:00
S42	1315	((titanium or tin or zirconium) same (absorb\$4) same (anion or cation or ion))	US-PGPUB; USPAT	OR	OFF	2010/11/09 09:43
S43	232	S42 and (polyvinylidene or PVDF or polyacrylonitrile or ethylene near2 vinylalcohol or EVOH)	US-PGPUB; USPAT	OR	ON	2010/11/09 09:44
S44	14	S43 and (porous near2 (fiber or fibril))	US-PGPUB; USPAT	OR	ON	2010/11/09 09:44
S45	54	S43 and (absorbent)	US-PGPUB; USPAT	OR	ON	2010/11/09 09:47
S46	696	(ion or anion or cation) near2 absorbent	US-PGPUB; USPAT	OR	ON	2010/11/09 09:50
S47	80	S46 and (polyvinylidene or PVDF or polyacrylonitrile or ethylene near2 vinylalcohol or EVOH)	US-PGPUB; USPAT	OR	ON	2010/11/09 09:50
S48	17	S46 and ((polyvinylidene or PVDF or polyacrylonitrile or ethylene near2 vinylalcohol or EVOH) with (fiber or fibril))	US-PGPUB; USPAT	OR	ON	2010/11/09 09:52
S49	223	(porous near2 (polyacrylonitrile or "PAN"))	US-PGPUB; USPAT	OR	ON	2010/11/09 09:57
S50	5	S49 and ((ion or anion or cation) near2 absorb\$4)	US-PGPUB; USPAT	OR	ON	2010/11/09 09:57
S51	140	(porous near2 (polyacrylonitrile))	US-PGPUB; USPAT	OR	ON	2010/11/09 10:00
S52	1044	(porous near2 (polyacrylonitrile or polysulfone or polyvinylidene near2 fluoride or ethylene near2 vinylalcohol or EVOH))	US-PGPUB; USPAT	OR	ON	2010/11/09 10:01
S53	265	(porous near2 (polyacrylonitrile or polysulfone or polyvinylidene near2 fluoride or ethylene near2 vinylalcohol or EVOH)) same (fiber or fibril)	US-PGPUB; USPAT	OR	ON	2010/11/09 10:01
S54	5	S53 and ((cation or ion or anion) with absorb\$5)	US-PGPUB; USPAT	OR	OFF	2010/11/09 10:03
S55	9	(porous near2 (polyacrylonitrile or polysulfone or polyvinylidene near2 fluoride or ethylene near2 vinylalcohol or EVOH)) same absorbent	US-PGPUB; USPAT	OR	ON	2010/11/09 10:06
S56	39	(porous near2 (polyacrylonitrile or polysulfone or polyvinylidene near2 fluoride or ethylene near2 vinylalcohol or EVOH)) same (surface near2 area)	US-PGPUB; USPAT	OR	ON	2010/11/09 10:07
S57	180	(porous near2 (polyacrylonitrile or polysulfone or polyvinylidene near2 fluoride or ethylene near2 vinylalcohol or EVOH)) with (fiber or fibril)	US-PGPUB; USPAT	OR	ON	2010/11/09 10:08

## EAST Search History (Prior Art)

S58	5	((porous near2 (polyacrylonitrile or polysulfone or polyvinylidene near2 fluoride or ethylene near2 vinylalcohol or EVOH)) with (fiber or fibril)) same (absorb\$4 or adsorb\$4)	US-PGPUB; USPAT	OR	ON	2010/11/09 10:11
S59	8	"5418284"	US-PGPUB; USPAT	OR	OFF	2010/11/10 08:35
S60	62	(omori near2 akihiro) or (shimizu near2 tadashi)	US-PGPUB; USPAT	OR	ON	2010/11/10 08:44
S61	4519	(porous with bead) and (fiber or fibre or fibril)	US-PGPUB; USPAT	OR	ON	2011/03/16 09:20
S62	226	S61 and (network with structure)	US-PGPUB; USPAT	OR	ON	2011/03/16 09:20
S63	191	S62 and (absorb\$4 or adsorb\$4)	US-PGPUB; USPAT	OR	ON	2011/03/16 09:21
S64	4	S62 and (ion near2 (absorb\$4 or adsorb\$4))	US-PGPUB; USPAT	OR	ON	2011/03/16 09:21
S65	8	("4110529"   "4904426"   "4940734"   "4985468"   "5021462"   "5047437"   "5314923").PN. OR ("6689465").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2011/03/16 09:41
S66	25	("4094848"   "4100149"   "4425237"   "4582860"   "4623706"   "4693985"   "4940734"   "5047437").PN. OR ("5314923").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2011/03/16 09:45

## EAST Search History (Interference)

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